AUDIT REPORT

Hostname: Access_SW2 Config file name: access-sw2.txt

Config hash: 601d9094261ea0b9ae9b1c474c7a135b75cc1cc7

Vendor: cisco OS: ios Facility layer: access L3 protocols: ipv4 Enabled functions: acl created

Date: 18/05/2020_09:49

SUCCESS STATISTICS

Weighted score 90 out of 100 coefficient:

Successful checks: 85.9% Unsuccessful checks: 14.1%

Total number of relevant 149

started checks:

Successful checks: 128 Unsuccessful 'Critical': Unsuccessful 'High': Unsuccessful 'Medium': 9 Unsuccessful 'Low': 1 Unsuccessful 'Notice':

Authentication, Authorization, Accounting

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	AAA new model/ Enabled AAA	High	False	False	Successful 🗸
_	t configuration setting found in: new-model				
2	AAA server set	High	False	False	Successful 🗸
radiu:	t configuration setting found in: s server RADIUS_SERVER ess ipv4 192.168.60.11 auth-port 1645 acct-port 16 adKey1	546			
3	AAA server group	High	False	False	Successful 🗸
aaa g	t configuration setting found in: group server radius RADIUS_SERVER er name RADIUS_SERVER				
4	AAA authentication login	High	False	False	Successful 🗸
	t configuration setting found in: outhentication login default group RADIUS_SERVER	local enable			
5	AAA authentication login fallback	High	False	False	Successful 🗸
_	t configuration setting found in: outhentication login default group RADIUS_SERVER	local enable			

6	AAA authentication login only local disabled	High	False	False	Successful 🗸		
7	AAA authentication login none disabled	Critical	False	False	Successful 🗸		
8	AAA authentication "enable"	Medium	False	False	Successful 🗸		
Right configuration setting found in: aaa authentication enable default group RADIUS_SERVER enable							
9	AAA authentication "enable" fallback	Medium	False	False	Successful 🗸		
	t configuration setting found in: outhentication enable default group RADIUS_SERVE	R enable					
10	AAA authentication "enable" only local disabled	Medium	False	False	Successful 🗸		
11	AAA authentication "enable" none disabled	High	False	False	Successful 🗸		
12	AAA authorization "exec"	High	False	False	Successful 🗸		
	t configuration setting found in: outhorization exec default group RADIUS_SERVER lo	ocal if-authen	ticated				
13	AAA authorization "exec" fallback	High	False	False	Successful 🗸		
	t configuration setting found in: outhorization exec default group RADIUS_SERVER k	ocal if-authen	ticated				
14	AAA authorization "exec" only local disabled	High	False	False	Successful 🗸		
15	AAA authorization "exec" none disabled	Critical	False	False	Successful 🗸		
16	AAA accounting "connection"	High	False	False	Successful 🗸		
	t configuration setting found in: accounting connection default start-stop group RAD	OIUS_SERVER					
17	AAA auccounting "connection" none disabled	High	False	False	Successful 🗸		
18	AAA accounting "exec"	High	False	False	Successful 🗸		
	t configuration setting found in: accounting exec default start-stop group RADIUS_S	ERVER					
19	AAA accounting "exec" none disabled	High	False	False	Successful 🗸		
20	AAA source interface	Medium	False	False	Successful 🗸		
	t configuration setting found in: lius source-interface Loopback0						
21	AAA authentication max attempts less or equal to 5	High	False	False	Successful 🗸		

Access to device

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Exec timeout <=5 minutes	Medium	False	False	Successful 🗸
line of	t configuration setting found in: con 0 -timeout 5 0 /ty 0 4 -timeout 5 0				
2	AUX connection input disabled	High	False	False	Successful 🗸
3	AUX no execution set	High	False	False	Successful 🗸
Right configuration setting found in: line aux 0 no exec					
4	Remote output connections disabled	Medium	False	False	Successful 🗸

Right configuration setting found in: line con 0 transport output none line aux 0 transport output none line vty 0 4 transport output none								
5	Local user database with encrypted password	Critical	False	False	Successful 🗸			
	t configuration setting found in: name admin secret 5 \$1\$9X2k\$0ZDQbjLWGle3hG0	GizYGlf/						
6	Local user database with plaintext password disabled	Critical	False	False	Successful 🗸			
7	Enable password encrypted	Critical	False	False	Successful 🗸			
	t configuration setting found in: le secret 5 \$1\$t091\$bXqU8AnbAzNhsk9e6v4BS0							
8	Enable password plaintext disabled	Critical	False	False	Successful 🗸			
9	Local login to virtual terminal disabled	Critical	False	False	Successful 🗸			
10	Restrict login to device - IPv4 ACL	Critical	False	False	Successful 🗸			
line v	t configuration setting found in: vty 0 4 ss-class IPV4_VTY_ACL in							
11	ACL specified for VTY access is created	Critical	False	False	Error 🗶			
Fix r Canr mans ip ac rema	ment: not be fixed automatically! notice: not be fixed automatically! If search is not successfunct be fixed automatically! If search is not successfunction devices with these commands: cess-list standard <acl name=""> urk Permiting managemnt device nit <ip address=""> <wildcard mask=""></wildcard></ip></acl>	rul create ACL	, which permit	s only needed (end stations for			
12	Log login to device on failure	High	False	False	Successful 🗸			
	t configuration setting found in: on-failure log							
13	Log login to device on success	Medium	False	False	Successful 🗸			
	t configuration setting found in: on-success log							
14	Login quiet mode	Medium	False	False	Successful 🗸			
_	t configuration setting found in: quiet-mode access-class IPV4_VTY_ACL							
15	ACL exists for specified login quiet mode	e Medium	False	False	Error 🗶			
Canr	ment: not be fixed automatically! notice: not be fixed automatically! If search is not successf	iul create ACI	which nermit	s only needed 6	end stations for			
mana ip ac rema	aging devices with these commands: cess-list standard <acl name=""> irk Permiting managemnt device hit <ip address=""> <wildcard mask=""></wildcard></ip></acl>	ar create Ace	, when perme		and sections to			
16	One user change config at time	High	False	False	Successful 🗸			
	t configuration setting found in: guration mode exclusive							
17	Legal banner MOTD	Low	False	False	Successful 🗸			
	t configuration setting found in: er motd ^C Unauthorized access will be prosecute	ed!! ^C						
18	Legal banner exec	Low	False	False	Successful 🗸			

bann	Right configuration setting found in: banner exec ^C Unauthorized access will be prosecuted!! ^C banner login ^C Unauthorized access will be prosecuted!! ^C									
19	Legal banner login	Low	False	False	Successful 🗸					
bann	t configuration setting found in: er login ^C Unauthorized access will be prosecute er motd ^C Unauthorized access will be prosecute									
20	Session timeout	Medium	False	False	Successful 🗸					
line of sessi li	on-timeout 30									
21	AUX exec timeout one second	High	False	False	Successful 🗸					
line a	t configuration setting found in: oux 0 timeout 0 1									
22	Restrict login to device - IPv6 ACL	Critical	True	False	Not relevant ✓					
	ment: ped, required function ipv6 not configured on device	ce. Everything	ı is OK.							
23	ACL IPv6 specified for VTY access is created	Critical	True	False	Not relevant ✓					
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.									
24	Login DOS block for	High	False	False	Successful 🗸					
_	t configuration setting found in: block-for 120 attempts 3 within 30									

SSH

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	SSH enable on management connection	Critical	False	False	Error 🗶			
	nd error in context(s): rty 0 4							
line v	erated fix: ty 0 4 port input ssh							
Make	otice: sure RSA key is present - generated or imported. I o key generate rsa modulus 2048	For generatin	g RSA key, issı	ue command:				
2	SSH version 2	Critical	False	False	Error 🗶			
	erated fix: n version 2							
3	SSH timeout	Medium	False	False	Error X			
Generated fix: ip ssh timeout 30 ip ssh time-out 30 Fix notice: Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions.								
just d 4	SSH max 3 retries	Medium	False	False	Successful 🗸			
•	SST Max S Teches	caiaiii	. 4.50	. 4.50	Juccessiui •			

5	SSH source interface	High	False	False	Error X
	nerated fix: sh source-interface Loopback0				
6	SSH not default port	High	False	False	Error 🗶
	nerated fix: sh port 2223 rotary 1				
7	SSH not default port applied	High	False	False	Successful 🗸
_	ht configuration setting found in: vty 0 4 ry 1				

Device identification

No.	Name	Severity	Skipped	Cannot determine search/fix			
1	Hostname set	Low	False	False	Successful 🗸		
Cann	ment: ot be fixed automatically! t configuration setting found in: ame Access_SW2						
2	Domain name set	Low	False	False	Successful 🗸		
_	Right configuration setting found in: ip domain-name thesis-test.cz						
3	All interfaces have description	Low	False	False	Error 🗶		

Comment:

Cannot be fixed automatically!

Right configuration setting found in:

interface Ethernet0/0 description trusted-uplink interface Ethernet0/1 description trusted-uplink

Found port(s) with error:

Loopback0

Ethernet0/2

Ethernet0/3

Ethernet1/0

Ethernet1/1

Ethernet1/2

Ethernet1/3

Ethernet2/0

Ethernet2/1 Ethernet2/2

Ethernet2/3

Ethernet3/0

Ethernet3/1

Ethernet3/2

Ethernet3/3

Serial4/0

Serial4/1 Serial4/2

Serial4/3

Serial5/0

Serial5/1

Serial5/2

Serial5/3

Vlan1

Fix notice:

Set interface descrtiption with command: interface <interface name> description <description of interface>

Fix ignore comment:

ip access-list standard <acl name>

permit <ip address> <wildcard mask>

remark Permiting SNMP

Fixing commands suppressed due to manual need of manual chenage and name determination.

SNMP

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	SNMP v2 write disabled	Critical	False	False	Successful 🗸
2	SNMP v2 read without ACL disabled	Critical	False	False	Successful 🗸
3	SNMP v2 read with ACL disabled	Critical	False	False	Successful 🗸
4	SNMP v1 trap host disabled	Critical	False	False	Successful 🗸
5	SNMP v2 trap host disabled	Critical	False	False	Successful 🗸
6	SNMP v3 read [authnopriv noauth authpriv without ACL] or write disabled	Critical	False	False	Error 🗶
	r configuration setting found in: o-server group SNMP_V3_GRP v3 auth read READVII	EWv3 access	SNMP_V3		
7	SNMP v3 read authpriv with ACL enabled	d Critical	False	False	Error 🗶
	o-server group SNMP_V3_GRP v3 priv read READVIE o-server user SNMPv3USER SNMP_V3_GRP v3 auth s o-v3 SNMP v3 read authpriv with IPv6 ACL enabled		_	es 256 SnmpPas False	Not relevant
	ment: bed, required function ipv6 not configured on device SNMP user v1 v2c or v3	e. Everything	is OK.		
9	[noauth authnopriv no sha no aes without ACL] disabled	Critical	False	False	Successful 🗸
10	SNMP trap source interface	High	False	False	Successful 🗸
_	t configuration setting found in: o-server trap-source Loopback0				
11	SNMP server location	High	False	False	Successful 🗸
_	t configuration setting found in: o-server location GNS3LAB				
12	SNMP v3 traps priv	Medium	False	False	Error X
	erated fix: o-server host 192.168.60.11 version 3 priv SNMPv3				
13	SNMP traps v3 read [authnopriv noauth] or v1 v2 disabled	Critical	False	False	Error 🗶
	r configuration setting found in: o-server host 192.168.60.11 version 3 auth SNMPv3	BUSER			
14	SNMP traps enabled	Medium	False	False	Successful 🗸
	t configuration setting found in: o-server enable traps snmp authentication linkdowr	n linkup colds	tart warmstart		
15	ACL is created for SNMPv3	Critical	False	False	Error 🗶
	ment: ot be fixed automatically!				
Cann recei	notice: ot be fixed automatically! If search is not successfunction ving SNMP with these commands: cess-list standard <acl name=""></acl>	ul create ACL	, which permits	only needed e	nd stations for

16	ACL IPv6 is created for SNMPv3	Critical	True	False	Not relevant ✓		
	m ent: ped, required function ipv6 not configured on devi	ce. Everythin	g is OK.				
17	SNMP interface index persist enabled globally	High	False	False	Successful 🗸		
_	nt configuration setting found in: o ifmib ifindex persist						
18	SNMP interface index persist enabled per interface	High	False	False	Matched by equivalent ✓		
Comment: Module was marked as matched by equivalent by module 05 20 snmp ifindex persist globally.yaml							

Syslog

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Syslog server enabled	High	False	False	Successful 🗸
	t configuration setting found in: ng host 192.168.60.11				
2	Syslog server IPv6 enabled	High	True	False	Not relevant ✓
	ment: ed, required function ipv6 not configured on devic	e. Everything	is OK.		
3	Syslog source interface	Medium	False	False	Successful 🗸
	t configuration setting found in: ng source-interface Loopback0				
4	Syslog format	Medium	False	False	Successful 🗸
_	t configuration setting found in: ce timestamps log datetime msec				
5	Syslog critical alerts to console	Medium	False	False	Successful 🗸
	t configuration setting found in: ng console critical				
6	Syslog send informational traps	High	False	False	Successful 🗸
7	Syslog buffer set with severity	High	False	False	Successful 🗸
	t configuration setting found in: ng buffered 40960 informational				
8	Syslog local backup	High	False	False	Successful 🗸
	t configuration setting found in: ng persistent url unix:/				
9	Syslog sequence numbers added	Medium	False	False	Successful 🗸
_	t configuration setting found in: ce sequence-numbers				

NTP

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	NTP server set	High	False	False	Successful 🗸
_	t configuration setting found in: erver 192.168.60.11				
2	NTP source interface	Medium	False	False	Successful 🗸

_	ht configuration setting found in: source Loopback0						
3	NTP authentication key	High	False	False	Successful 🗸		
_	Right configuration setting found in: ntp authentication-key 1 md5 1419061B3C053938332C626771 7						
4	NTP trusted key	High	False	False	Successful 🗸		
	ht configuration setting found in: trusted-key 1						
5	NTP authenticate	High	False	False	Successful 🗸		
_	ht configuration setting found in: authenticate						

High load

_					
No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	SNMP traps for CPU load	Medium	False	False	Error 🗶
	erated fix: o-server enable traps cpu threshold				
2	Threshold for CPU load	Medium	False	False	Successful 🗸
	t configuration setting found in: ess cpu threshold type total rising 70 interval 5				
3	Statistics entry for CPU load	Low	False	False	Successful 🗸
	t configuration setting found in: ess cpu statistics limit entry-percentage 70				
4	Reserve memory for critical notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory reserve critical 1000				
5	Minimum CPU memory notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory free low-watermark processor 2000				
6	Minimum IO memory notification	Medium	False	False	Error 🗶
	erated fix: ory free low-watermark io 2000				

Spanning tree

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Portfast globally enabled	High	False	False	Successful 🗸
_	t configuration setting found in: ning-tree portfast edge default				
2	Portfast enabled on access interface	High	False	False	Matched by equivalent ✓
	ment: le was marked as matched by equivalent by modu	le 09_01_stp_	_portfast_defau	lt.yaml	
3	BPDU Guard globally enabled	Critical	False	False	Successful 🗸
_	t configuration setting found in: ning-tree portfast edge bpduguard default				
4	BPDU Guard enabled on access interface	High	False	False	Matched by equivalent ✓

	Comment: Module was marked as matched by equivalent by module 09_03_stp_bpdu_guard.yaml								
5	BPDU Filter globally disabled	Critical	False	False	Successful 🗸				
6	BPDU Filter disabled on access interface	High	False	False	Not relevant ✓				
Modu	ment: ule 09_06_stp_bpdu_filter_interface.yaml configured module has not run yet with specified cmd_match_s								
7	Loop Guard globally enabled	Critical	False	False	Successful 🗸				
	t configuration setting found in: ning-tree loopguard default								
8	Loop Guard enabled on access interface	High	False	False	Matched by equivalent ✓				
Com	ment:								

VLAN

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Default Vlan not used	Critical	False	False	Error 🗶

Comment:

Cannot be fixed automatically! Cannot automatically determine VLAN assignment to port.

Module was marked as matched by equivalent by module 09 07 stp loop guard.yaml

Right configuration setting found in:

interface Ethernet0/2 switchport access vlan 30

Found port(s) with error:

Ethernet0/3

Ethernet1/0

Ethernet1/1

Ethernet1/2

Ethernet1/3

Ethernet2/0

Ethernet2/1

Ethernet2/2

Ethernet2/3

Ethernet3/0 Ethernet3/1

Ethernet3/2

Ethernet3/3

Fix notice:

Eliminate ports with default Vlan by command with Vlan ID different than 1 interface <interface name>

switchport mode access

switchport access vlan <vlan id>

2 Management VLAN + SVI set and Medium False False Error X
different than 1

Comment

Cannot be fixed automatically! Cannot automatically set diffrenet IP among SVI(s) a lot of prerequirements must be met as existing VLAN and port assigned to VLAN.

Fix notice:

If successful, it means SVI was found, but it might not be management VLAN!! Management VLAN can be created with command:

interface Vlan <vlan id>

ip address <ip> <mask>

no shutdown

3 Management VLAN gateway Medium False False Successful ✓

Comment:

Cannot be fixed automatically! Cannot automatically set default gateway among different switches.

Right configuration setting found in:

ip default-gateway 192.168.30.1

4	Native vlan different than 1	Critical	False	False	Successful 🗸
interf switc interf	t configuration setting found in: Face Ethernet0/0 hport trunk native vlan 100 Face Ethernet0/1 hport trunk native vlan 100				
5	Specified allowed VLAN on trunk	Critical	False	False	Successful 🗸
interf switc interf	t configuration setting found in: Face Ethernet0/0 hport trunk allowed vlan 20,30 Face Ethernet0/1 hport trunk allowed vlan 20,30				
6	Switchport mode dynamic disabled	Critical	False	False	Successful 🗸
7	Switchport implicit dynamic disabled	Critical	False	False	Successful 🗸
interf switc interf interf switc interf int	t configuration setting found in: face Ethernet0/2 hport mode access face Ethernet1/3 hport mode access face Ethernet1/1 hport mode access face Ethernet1/2 hport mode access face Ethernet1/3 hport mode access face Ethernet2/0 hport mode access face Ethernet2/1 hport mode access face Ethernet2/1 hport mode access face Ethernet3/3 hport mode access face Ethernet3/3 hport mode access face Ethernet3/1 hport mode access face Ethernet3/2 hport mode access face Ethernet3/3 hport mode access				
8	DTP disabled	Critical	False	False	Successful 🗸

Right configuration setting found in:

interface Ethernet0/0 switchport nonegotiate interface Ethernet0/1 switchport nonegotiate interface Ethernet0/2 switchport nonegotiate interface Ethernet0/3 switchport nonegotiate interface Ethernet1/0 switchport nonegotiate interface Ethernet1/1 switchport nonegotiate interface Ethernet1/2 switchport nonegotiate interface Ethernet1/3 switchport nonegotiate interface Ethernet2/0 switchport nonegotiate interface Ethernet2/1 switchport nonegotiate interface Ethernet2/2 switchport nonegotiate interface Ethernet2/3 switchport nonegotiate interface Ethernet3/0 switchport nonegotiate interface Ethernet3/1 switchport nonegotiate interface Ethernet3/2 switchport nonegotiate interface Ethernet3/3 switchport nonegotiate

9 VTP disabled Critical False False Successful ✔

Network Mapping

remark deny host query deny igmp any any 1 log-input

remark deny ping all nodes remark deny host query

permit ip any any

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	CDP globally disabled	Critical	False	False	Successful 🗸
_	t configuration setting found in: Ip run				
2	CDP disabled on interface(s)	Critical	False	False	Matched by equivalent ✓
	ment: lle was marked as matched by equivalent by modu	ile 11_01_cdp	_run_disabled. _!	yaml	
3	LLDP globally disabled	Critical	False	False	Successful 🗸
4	LLDP receive disabled on interface(s)	Critical	False	False	Not relevant ✓
Modu	ment: Ile 11_04_IIdp_receive.yaml configured to run after lot run yet with specified cmd_match_status, 11_04				error but that modul
5	LLDP transmit disabled on interface(s)	Critical	False	False	Not relevant ✓
Modu	ment: lle 11_05_lldp_transmit.yaml configured to run afte lle has not run yet with specified cmd_match_statu				error but that
6	ICMP 224.0.0.1 ping disabled in ACL	Medium	False	False	Successful 🗸
ip ac	t configuration setting found in: cess-list extended DENY_NETWORK_MAP rk deny ping all nodes icmp any host 224.0.0.1 echo log-input				

7	IGMP Host Query disabled in ACL	Medium	False	False	Successful 🗸
ip ac rema deny rema deny perm rema	cess-list extended DENY_NETWORK_MAP ark deny ping all nodes cicmp any host 224.0.0.1 echo log-input ark deny host query cigmp any any 1 log-input ait ip any any ark deny ping all nodes ark deny host query ark deny host query ark deny ping all nodes ark deny host query				
8	ICMPv6 ff02::1 ping disabled in ACL	Medium	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on devi	ce. Everything	g is OK.		
9	MLD Host Query disabled in ACL	Medium	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on devi	ce. Everything	g is OK.		
10	ACL against IPv4 network monitoring applied on interface(s)	Medium	False	False	Successful 🗸
inter ip ac inter	cess-group DENY_NETWORK_MAP in face Ethernet1/2 cess-group DENY_NETWORK_MAP in face Ethernet1/0 cess-group DENY_NETWORK_MAP in face Ethernet1/1 cess-group DENY_NETWORK_MAP in face Ethernet1/1 cess-group DENY_NETWORK_MAP in face Ethernet1/2 cess-group DENY_NETWORK_MAP in face Ethernet1/3 cess-group DENY_NETWORK_MAP in face Ethernet2/0 cess-group DENY_NETWORK_MAP in face Ethernet2/1 cess-group DENY_NETWORK_MAP in face Ethernet2/2 cess-group DENY_NETWORK_MAP in face Ethernet2/3 cess-group DENY_NETWORK_MAP in face Ethernet3/0 cess-group DENY_NETWORK_MAP in face Ethernet3/1 cess-group DENY_NETWORK_MAP in face Ethernet3/1 cess-group DENY_NETWORK_MAP in face Ethernet3/2 cess-group DENY_NETWORK_MAP in face Ethernet3/2 cess-group DENY_NETWORK_MAP in face Ethernet3/3				
11	ACL against IPv6 network monitoring applied on interface(s)	Medium	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on devi	ce. Everything	g is OK.		

Filtering

No.	Name	Severity	Skipped	Cannot determine search/fix			
1	ACL filter IPv6 unknown extended header	Critical	True	False	Not relevant ✓		
	nent: ed, required function ipv6 not configured on device	e. Everything	is OK.				
2	ACL filter IPv6 unknown extended header applied on ACCESS interface	Critical	True	False	Not relevant ✓		
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						

First Hop Security

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Port security enabled	Critical	False	False	Successful 🗸
interfaswitch	t configuration setting found in: ace Ethernet0/2 port port-security ace Ethernet1/0 port port-security ace Ethernet1/1 port port-security ace Ethernet1/2 port port-security ace Ethernet1/2 port port-security ace Ethernet1/3 port port-security ace Ethernet2/0 port port-security ace Ethernet2/1 port port-security ace Ethernet2/1 port port-security ace Ethernet3/1 port port-security ace Ethernet3/1 port port-security ace Ethernet3/1 port port-security ace Ethernet3/1 port port-security ace Ethernet3/2 port port-security ace Ethernet3/1 port port-security ace Ethernet3/2 port port-security ace Ethernet3/3 port port-security				
2	Port security maximum 1 allowed MA on port	AC Critical	False	False	Successful 🗸
3	Port security violation shutdown	Critical	False	False	Successful 🗸
4	802.1x globally enabled	High	False	False	Successful 🗸
	t configuration setting found in: system-auth-control				
5	AAA authentication 802.1x	High	False	False	Successful 🗸
	t configuration setting found in: uthentication dot1x default group RADIUS_SE	RVER			
6	802.1x enabled on interfaces	High	False	False	Successful 🗸

Right configuration setting found in: interface Ethernet0/2 access-session port-control auto interface Fthernet0/3 access-session port-control auto interface Ethernet1/0 access-session port-control auto interface Ethernet1/1 access-session port-control auto interface Ethernet1/2 access-session port-control auto interface Ethernet1/3 access-session port-control auto interface Ethernet2/0 access-session port-control auto interface Ethernet2/1 access-session port-control auto interface Ethernet2/2 access-session port-control auto interface Ethernet2/3 access-session port-control auto interface Ethernet3/0 access-session port-control auto interface Ethernet3/1 access-session port-control auto interface Ethernet3/2 access-session port-control auto interface Ethernet3/3 access-session port-control auto 7 High **False** 802.1x enabled on interfaces **False** Successful < 8 802.1x port set authenticator High False False Successful < Right configuration setting found in: interface Ethernet0/2 dot1x pae authenticator interface Ethernet0/3 dot1x pae authenticator interface Ethernet1/0 dot1x pae authenticator interface Ethernet1/1 dot1x pae authenticator interface Ethernet1/2 dot1x pae authenticator interface Ethernet1/3 dot1x pae authenticator interface Ethernet2/0 dot1x pae authenticator interface Ethernet2/1 dot1x pae authenticator interface Ethernet2/2 dot1x pae authenticator interface Ethernet2/3 dot1x pae authenticator interface Ethernet3/0 dot1x pae authenticator interface Ethernet3/1 dot1x pae authenticator interface Ethernet3/2 dot1x pae authenticator interface Ethernet3/3 dot1x pae authenticator DHCP Snooping globally enabled Critical **False False** Successful < Right configuration setting found in: ip dhcp snooping 10 DHCP Snooping enabled for VLAN(s) Critical **False False** Successful < Right configuration setting found in: ip dhcp snooping vlan 1,20,30,100 DHCP Snooping trust interface(s) set Critical **False False** Successful < Right configuration setting found in: interface Ethernet0/0 ip dhcp snooping trust interface Ethernet0/1 ip dhcp snooping trust

	DHCP Snooping rate limit fo ACCE interface(s) set	ESS High	False	False	Successful 🗸
interfi ip dho interfi ip dho interfi i	t configuration setting found in: face Ethernet0/2 cp snooping limit rate 100 face Ethernet1/0 cp snooping limit rate 100 face Ethernet1/1 cp snooping limit rate 100 face Ethernet1/1 cp snooping limit rate 100 face Ethernet1/2 cp snooping limit rate 100 face Ethernet1/3 cp snooping limit rate 100 face Ethernet2/0 cp snooping limit rate 100 face Ethernet2/1 cp snooping limit rate 100 face Ethernet2/2 cp snooping limit rate 100 face Ethernet2/3 cp snooping limit rate 100 face Ethernet3/0 cp snooping limit rate 100 face Ethernet3/1 cp snooping limit rate 100 face Ethernet3/1 cp snooping limit rate 100 face Ethernet3/2 cp snooping limit rate 100 face Ethernet3/3 cp snooping limit rate 100				
					No.
13	IPv6 Unicast Routing enabled	Critica	al True	False	Not relevant ✓
Comr	IPv6 Unicast Routing enabled ment: ed, required function ipv6 not configured			False	✓
Comr Skipp	ment:	on device. Every	thing is OK.	False False	
Comr Skipp 14 Comr	ment: led, required function ipv6 not configured	on device. Every	thing is OK. al True		✓ Not relevant
Comr Skipp 14 Comr	ment: ed, required function ipv6 not configured IPv6 RA Guard host policy defined ment:	on device. Every Critica on device. Every	thing is OK. al True thing is OK.		✓ Not relevant
Comr Skipp 14 Comr Skipp 15	ment: led, required function ipv6 not configured IPv6 RA Guard host policy defined ment: led, required function ipv6 not configured	on device. Every d Critica on device. Every ce(s) Critica	thing is OK. al True thing is OK. al True	False	Not relevant Not relevant

	m ent: ped, required function ipv6 not configured on devi	ce. Everythin	g is OK.				
17	DHCPv6 Client policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
.8	DHCPv6 Guard server interface(s) set	Critical	True	False	Not relevant ✓		
	ment: oed, required function ipv6 not configured on devi	ce. Everythin	g is OK.				
.9	DHCPv6 Guard client interface(s) set	Critical	True	False	Not relevant ✓		
	ment: ped, required function ipv6 not configured on devi	ce. Everythin	g is OK.				
20	Dynamic ARP Inspection enabled for VLAN(s)	Critical	False	False	Successful 🗸		
_	nt configuration setting found in: p inspection vlan 20,30						
21	Dynamic ARP Inspection validate by SRC,DST MAC and IP	Critical	False	False	Successful 🗸		
_	nt configuration setting found in: p inspection validate src-mac dst-mac ip						
22	Dynamic ARP trusted interface(s) set	Critical	False	False	Successful 🗸		
nter p ar nter	ot configuration setting found in: face Ethernet0/0 p inspection trust face Ethernet0/1 p inspection trust						
23	IPv6 ND inspection policy	Critical	True	False	Not relevant ✓		
	n ment: ped, required function ipv6 not configured on devi	ce. Everythin	g is OK.				
24	IPv6 ND inspection on interface(s) set	Critical	True	False	Not relevant ✓		
	ment: ped, required function ipv6 not configured on devi	ce Everythin	a is OK				
25	IPv6 Snooping policy	Critical	True	False	Not relevant ✓		
	ment: ped, required function ipv6 not configured on devi	ce. Everythin	a is OK.				
26	IPv6 Snooping on interface(s) set	Critical	True	False	Not relevant		
	m ent: oed, required function ipv6 not configured on devi	ce. Everythin	g is OK.				
27	IP Source Guard on interface(s) set	Critical	False	False	Successful 🗸		

inter ip ve inter	t configuration setting found in: face Ethernet0/2 rify source port-security face Ethernet1/0 rify source port-security face Ethernet1/1 rify source port-security face Ethernet1/2 rify source port-security face Ethernet1/3 rify source port-security face Ethernet2/0 rify source port-security face Ethernet2/1 rify source port-security face Ethernet2/1 rify source port-security face Ethernet2/2 rify source port-security face Ethernet2/3 rify source port-security face Ethernet3/1 rify source port-security face Ethernet3/1 rify source port-security face Ethernet3/2 rify source port-security face Ethernet3/2 rify source port-security						
28	IPv6 Source Guard policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
29	IPv6 Source Guard on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
30	IPv6 Destination Guard policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
31	IPv6 Destination Guard on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							

Other

No.	Name	Severity	Skipped	Cannot determine search/fix		
1	Servis PAD disabled (Packet assembler disassembler)	High	False	False	Successful 🗸	
Right configuration setting found in: no service pad						
2	BOOTP server disabled	High	False	False	Successful 🗸	
Right configuration setting found in: no ip bootp server						
3	Finger protocol disabled	High	False	False	Successful 🗸	
4	HTTP server disabled	High	False	False	Successful 🗸	
5	HTTPS server disabled	High	False	False	Successful 🗸	
6	TCP small server disabled	High	False	False	Successful 🗸	
7	UDP small server disabled	High	False	False	Successful 🗸	
8	IP domain lookup disabled	High	False	False	Successful 🗸	

^	nt configuration setting found in: o domain-lookup					
9	Gratuitous ARPs generation disabled	High	False	False	Successful 🗸	
	nt configuration setting found in: gratuitous-arps					
10	Gratuitous ARPs reject enabled	High	False	False	Successful 🗸	
_	nt configuration setting found in: p gratuitous none					
11	Netflow is disabled	Notice	False	False	Successful 🗸	
Fix ignore comment: By default fix is ignored due to disablement of traffic monitoring. Consider whether port mirroring is neccesary for monitoring						
12	Netflow version 9 used	Medium	False	False	Not relevant ✓	
Comment: Module 15_14_netflow_version_9.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_14_netflow_version_9.yaml will not run						
13	Netflow traffic analyze disabled on interface(s)	Notice	False	False	Not relevant ✓	
Comment: Module 15_15_netflow_interface.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_15_netflow_interface.yaml will not run						
Зу d	gnore comment: efault fix is ignored due to disablement of traffic n itoring	nonitoring. Co	nsider whethe	r port mirroring	is neccesary for	
14	Port mirroring disabled on interface(s)	Notice	False	False	Successful 🗸	
Fix ignore comment: By default fix is ignored due to disablement of traffic monitoring. Consider whether port mirroring is neccesary for monitoring						
15	Notification on memory IO leak/overflow	w Medium	False	False	Error X	
Gen	Notification on memory IO leak/overflowerated fix: ption memory ignore overflow io	w Medium	False	False	Error X	
Gen exce	erated fix:	w Medium Medium	False	False False	Error X	
Gen exce 16 Gen	erated fix: ption memory ignore overflow io Notification on memory CPU					
Gen exce 16 Gen exce	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix:					
Gen exce 16 Gen exce	erated fix: ption memory ignore overflow io Notification on memory CPU leak/overflow erated fix: ption memory ignore overflow processor	Medium	False	False	Error X	
Gen exce 16 Gen exce 17	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled	Medium Medium	False False	False	Error X Successful ✓	
Gen Gen Gen Gen 17 18 19	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled	Medium Medium Medium	False False False	False False False	Error X Successful ✓ Successful ✓	
Gen Gen Gen 16 Gen 17 18 19 Gen ip sc	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix:	Medium Medium Medium	False False False	False False False	Error X Successful ✓ Successful ✓	
Gen 17 18 19	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix: p server enable	Medium Medium Medium Medium	False False False	False False False	Error X Successful ✓ Successful ✓ Error X	
Gen Gen 16 Gen 17 18 19 Gen 20 21 Gen Gen	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix: option server enabled SCP alias copy instead of TFTP	Medium Medium Medium Medium	False False False False	False False False False	Error X Successful ✓ Successful ✓ Error X	
Gen exce 16 Gen exce 17 18 19 Gen ip so 20 21 Gen secu	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix: option server enabled SCP alias copy instead of TFTP Protection of configuration deletion erated fix: re boot config	Medium Medium Medium High High	False False False False False	False False False False False	Error X Successful ✓ Successful ✓ Error X Successful ✓ Error X	

archi log co loggi notify hidek path maxi time- mem	onfig ng enable y syslog contenttype plaintext						
23	Terminate hanged inbound TCP connection to device	Medium	False	False	Successful 🗸		
_	Right configuration setting found in: service tcp-keepalives-in						
24	Terminate hanged outbound TCP connection to device	Medium	False	False	Successful 🗸		
Right configuration setting found in: service tcp-keepalives-out							
25	Encrypt all saved passwords in configuration	Critical	False	False	Successful 🗸		
	t configuration setting found in: ervice password-encryption						